

NAME:

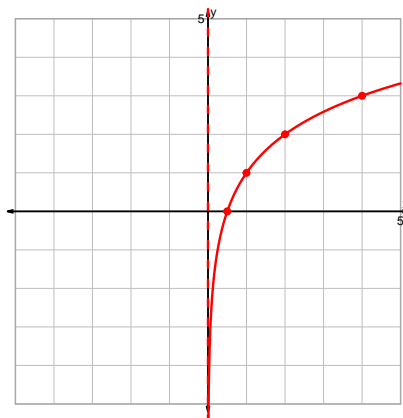
DATE:

Unit-2 Reduced Mastery Assessment (version 314)

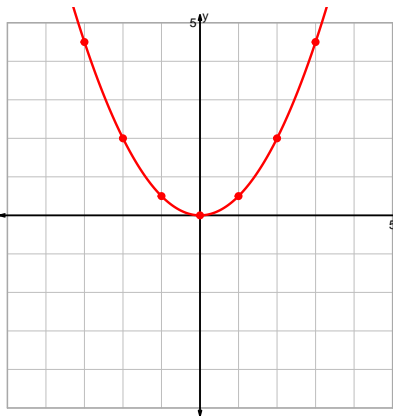
Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

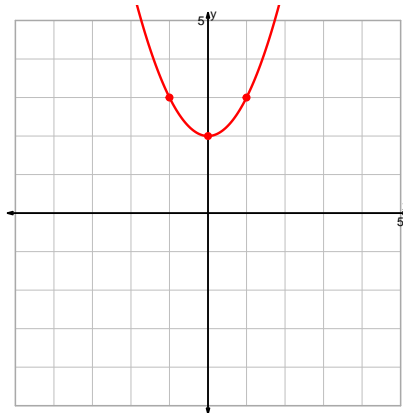
$$y = \log_2(2x)$$



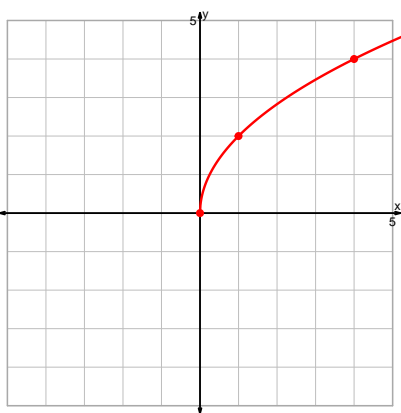
$$y = \frac{x^2}{2}$$



$$y = x^2 + 2$$

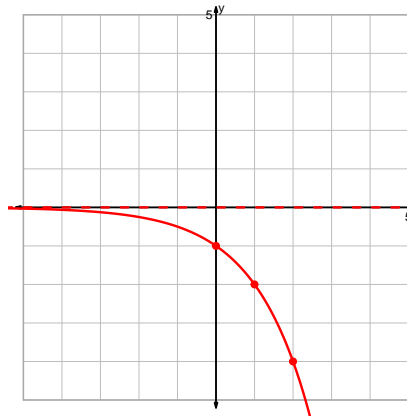


$$y = 2 \cdot \sqrt{x}$$

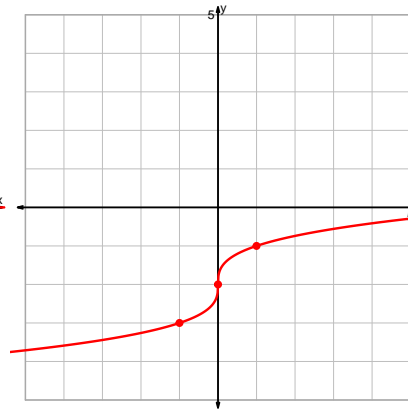


Question 2 continued...

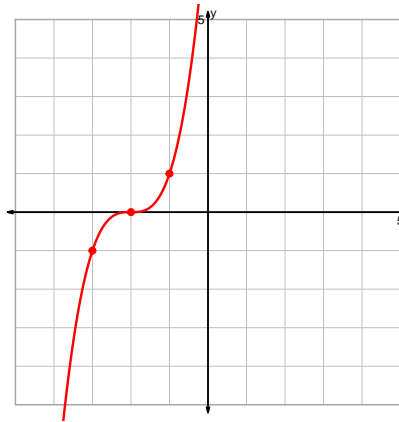
$$y = -2^x$$



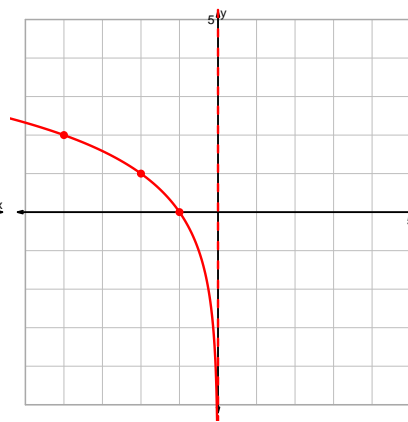
$$y = \sqrt[3]{x} - 2$$



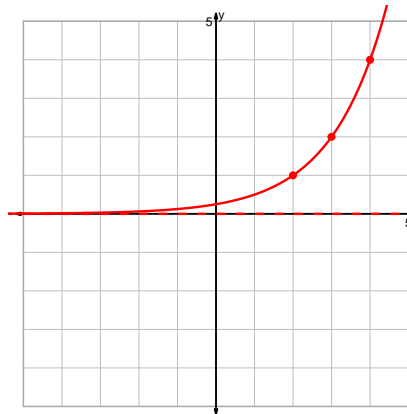
$$y = (x+2)^3$$



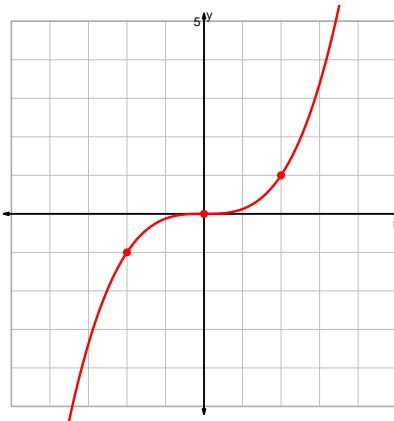
$$y = \log_2(-x)$$



$$y = 2^{x-2}$$

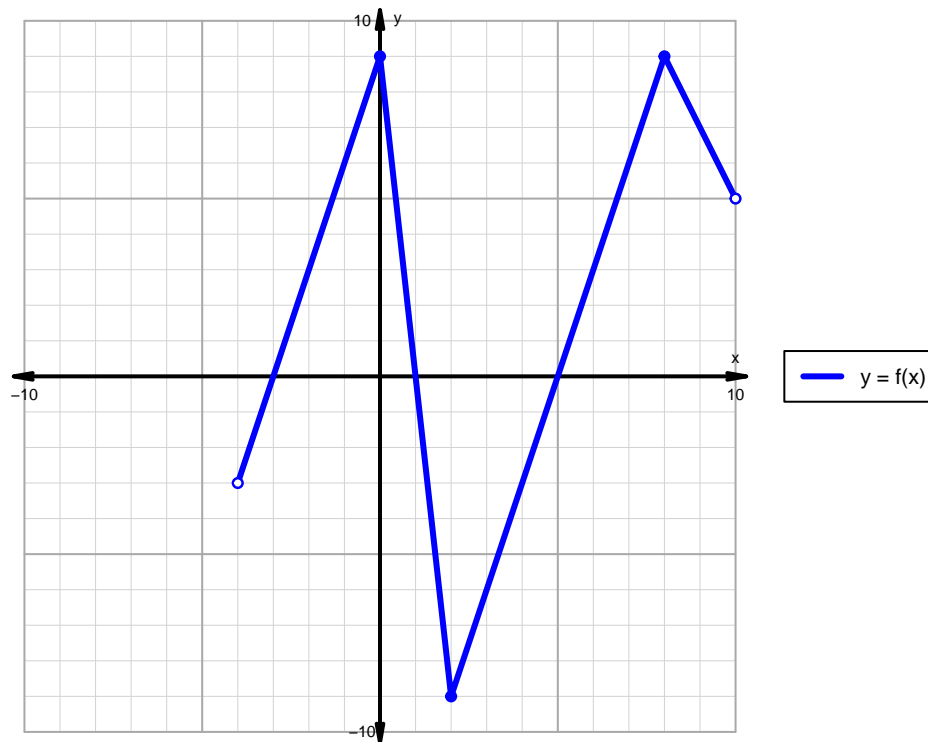


$$y = \left(\frac{x}{2}\right)^3$$



Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-3, 1) \cup (5, 10)$
Negative	$(-4, -3) \cup (1, 5)$
Increasing	$(-4, 0) \cup (2, 8)$
Decreasing	$(0, 2) \cup (8, 10)$
Domain	$(-4, 10)$
Range	$(-9, 9)$